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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/944,174	09/04/2001	Stefan Wahl	Q65929	9849	
7590 04/17/2006		EXAMINER			
SUGHRUE, M		HARPER,	HARPER, KEVIN C		
MACPEAK & S	SEAS, PLLC nia Avenue, N.W.	ART UNIT	PAPER NUMBER		
Washington, Do			2616		
			DATE MAILED: 04/17/2006	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applic	ation No.	Applicant(s)				
		09/944	09/944,174 WAHL		L ET AL.			
Office Action Summary			ner	Art Unit				
			C. Harper	2616				
Period fo	The MAILING DATE of this communic or Reply	cation appears on	the cover sheet w	ith the correspondence a	ddress			
A SH WHIO - Exte after - If NO - Failt Any	ORTENED STATUTORY PERIOD FO CHEVER IS LONGER, FROM THE MA Insions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this community of period for reply is specified above, the maximum state are to reply within the set or extended period for reply very reply received by the Office later than three months afficed patent term adjustment. See 37 CFR 1.704(b).	ALING DATE OF of 37 CFR 1.136(a). In no unication. utory period will apply an will, by statute, cause the	THIS COMMUNIO event, however, may a red d will expire SIX (6) MON application to become AB	CATION. reply be timely filed NTHS from the mailing date of this of BANDONED (35 U.S.C. § 133).	•			
Status								
1)⊠	Responsive to communication(s) filed	i on 30 January 2	006.					
2a)□		b)⊠ This action i						
3)								
-	closed in accordance with the practic							
Disposit	ion of Claims							
4)⊠	Claim(s) 1-18 is/are pending in the ap	oplication.						
,	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠	Claim(s) <u>14-18</u> is/are allowed.							
· · · · · · · · · · · · · · · · · · ·	Claim(s) <u>1-4,6-11 and 13</u> is/are rejected.							
7)🖂								
8)□	Claim(s) are subject to restrict	ion and/or electio	n requirement.					
Applicat	ion Papers							
9)□	The specification is objected to by the	Evaminer						
	The drawing(s) filed on is/are:		b)□ objected to	by the Examiner				
,	Applicant may not request that any object		•	-				
	Replacement drawing sheet(s) including	- -	•	` '	FR 1.121(d)			
11)	The oath or declaration is objected to							
	under 35 U.S.C. § 119							
12)	Acknowledgment is made of a claim for	or foreign priority	under 35 II S.C. 8	\$ 119(a)-(d) or (f)				
	☐ All b)☐ Some * c)☐ None of:	or loreign priority	under 55 0.5.6. §	3 119(a)-(u) 01 (1).				
- /	1. Certified copies of the priority of	locuments have h	een received					
	2. Certified copies of the priority of			application No				
	3. Copies of the certified copies of				Stage			
	application from the Internation				olugo ,			
* 5	See the attached detailed Office action	•	, ,,	received.				
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Attachmen	t(s)							
1) 🔯 Notic	e of References Cited (PTO-892)		4) Interview S	Summary (PTO-413)				
	e of Draftsperson's Patent Drawing Review (PT		Paper No(s	s)/Mail Date	0.450)			
	mation Disclosure Statement(s) (PTO-1449 or P r No(s)/Mail Date	10/88/08)	6) Other:	nformal Patent Application (PT	U-152)			
•			.,					

Applicant's arguments, filed January 30, 2006 with respect to the polling message of the Chapman reference have been fully considered and are persuasive. The previous rejection of these claims has been withdrawn. However, upon further consideration of claims 1-13, a new ground(s) of rejection is made in view of Eng in view of Moura.

Applicant's arguments with respect to the acknowledgement message of Chapman have been fully considered but they are not persuasive.

- 1. Applicant argued that the acknowledgement message is not a data packet. However, the acknowledgement message contains control data. In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., a data packet does not carry control information) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).
- Applicant argued that the content of the acknowledgement message is related to the interruption of the polling message. However, the content of the acknowledgement does not indicate that the polling should be interrupted (see applicant's remarks, September 12, 2005, page 15, last paragraph, "only when the contents of the signal... is a request to stop polling"), but only is a response indicating that a polling message has been received (Chapman, col. 3, lines 31-33).

Applicant's arguments with respect to the Eng reference have been fully considered but they are not persuasive.

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3. Applicant argued that Eng does not disclose a first time period shorter than a second time period that adjoins the first time period, where no transmit authorizations are sent to the second device in the second time period. However, in Eng a transmit authorization is sent for one minislot (fig. 2; col. 3, lines 49-50; col. 11, lines 27-29). The first time period represents the time that a transmit authorization is sent to the second device. Transmit authorizations are sent for the mini-slots corresponding to the remaining devices (col. 3, lines 49-50). The second time period represents the time that these transmit authorizations are sent (figs. 2 and 6). Therefore, the first time period is shorter than the second time period, the first time period adjoins the second time period, and no transmit authorizations are sent in the second time period for the second device.

4. Applicant argued that Eng does not disclose the limitations of claim 13. However, it appears that the first device is a terminal device and the second device is a controlling device (see claim objection below).

Claim Objections

5. Claim 13 is objected to because "first" in line 1 and "second" in line 3 should be interchanged (specification, page 3, lines 6-13). The second device transmits the transmit authorizations in claim 1 which disclosed as the control center in the specification. Appropriate correction is required.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

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Claims 1-4, 6-11 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Eng (US 5,963,557) in view of Moura et al. (US 5,818,845).

- Regarding claims 1-2 and 7-11, Eng discloses a method of sending a data packet from a first device (fig. 7, item 112) to a second device (one of item 150). The method comprises repeatedly sending the authorization to the first device from the second device when a data packet is expected (col. 3, lines 48-50; col. 11, lines 27-29) and transmitting a data packet from the first device to the second device following the reception of the transmit authorization (col. 4, lines 23-26). The data packet is a communication data information (col. 4, lines 25-26). Further regarding claims 7-8, the first device is a control unit of a control center having a head end of an HFC system (fig. 1).
- 2. However, Eng does not disclose transmitting two transmit authorizations and interrupting the transmission of transmit authorizations when the data packet is received. Moura discloses sending several transmit authorizations to one device (col. 10, lines 30-33). The transmission of the transmit authorizations is automatically interrupted when a data packet is received (col. 10, lines 24-29). The contents of the data packet are unrelated to the interruption of the transmit authorizations (col. 9, lines 51-55). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to send more than one transmit authorization to a device in the invention of Eng in order to determine the state of a subscriber station (fig. 7).
- 3. Regarding claim 4, Eng discloses a method of sending a transmit authorization from a first device (fig. 7, item 112) to a second device (one of item 150). The method comprises sending the authorization to the second device in a first time period (col. 3, lines 48-50; col. 11, lines 27-29; note: time period for a mini-slot), wherein the first time period is shorter than a

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second time period which adjoins the first time period and in which no transmit authorizations are sent to the second device (fig. 2; note: transmit authorizations are sent to one device for one assigned mini-slot and then sent to other devices for other mini-slots during which time no transmit authorizations are sent to the first device).

- 4. However, Eng does not disclose sending several transmit authorizations to one device. Chapman discloses sending several transmit authorizations to one device (fig. 4, steps 130-136). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to send more than one transmit authorization to a device in the invention of Eng in order to ensure receipt of a control message (Chapman, col. 4, lines 33-40).
- 5. Regarding claims 3 and 6, in Eng several subscriber stations are sent transmit authorizations and transmit data packets (fig. 2), where the subscriber stations transmit in different time slots (col. 4, lines 23-26).
- 6. Regarding claim 13, in Eng the first device is a control and the second device is a terminal (fig. 2).

Allowable Subject Matter

- 7. Claims 14-18 allowed.
- 8. Claims 5 and 12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Harper whose telephone number is 571-272-3166. The examiner can normally be reached weekdays from 11:00 AM to 7:00 PM ET.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Doris To, can be reached at 571-272-7629. The centralized fax number for the Patent Office is 571-273-8300. For non-official communications, the examiner's personal fax number is 571-273-3166 and the examiner's e-mail address is kevin harper@uspto.gov.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications associated with a customer number is available through Private PAIR only. For more information about the PAIR system, see portal uspto gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kevin C. Harper

April 17, 2006